

| L Number | Hits    | Search Text                                                                                                                                               | DB                                                      | Time stamp          |
|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| -        | 850     | (398/43,48,76,182,187,203,204).CCLS.                                                                                                                      | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>15:09 |
| -        | 98390   | frequenc\$3 near3 filter\$3                                                                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>15:13 |
| -        | 1537569 | optical or photonic                                                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>15:13 |
| -        | 641760  | suppress\$3                                                                                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>15:15 |
| -        | 2565    | ((suppress\$3) with (sideband\$1 or (side\$1 adj band\$1) or ("sideband")))                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:16 |
| -        | 180     | ((frequenc\$3 near3 filter\$3) and (optical or photonic) and ((suppress\$3) with (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))))                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:10 |
| -        | 1       | "6185345".PN.                                                                                                                                             | USPAT                                                   | 2003/12/06<br>09:55 |
| -        | 22703   | frequenc\$3 with select\$3 with filter\$3                                                                                                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:10 |
| -        | 4283    | frequency near2 select\$3 near2 filter\$3                                                                                                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:15 |
| -        | 90      | ((suppress\$3) with (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))) and (frequency near2 select\$3 near2 filter\$3)                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:11 |
| -        | 18      | ((((suppress\$3) with (sideband\$1 or (side\$1 adj band\$1) or ("sideband")))) and (frequency near2 select\$3 near2 filter\$3)) and (optical or photonic) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:12 |
| -        | 5359    | ((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband")))                                                                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:17 |
| -        | 186     | ((frequency near2 select\$3 near2 filter\$3) and ((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))))                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:16 |
| -        | 37      | ((frequency near2 select\$3 near2 filter\$3) and ((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband")))) and (optical or photonic)    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:22 |
| -        | 3       | ("6016426"   "6091932"   "6091940").PN.                                                                                                                   | USPAT                                                   | 2003/12/05<br>16:18 |

|   |        |                                                                                                                                                                                                                                                                                 |                                                         |                     |
|---|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| - | 112410 | (359/\$7.ccls.) or (398/\$7.ccls.)                                                                                                                                                                                                                                              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:22 |
| - | 857    | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>(frequenc\$3 with select\$3 with filter\$3)                                                                                                                                                                                         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:33 |
| - | 527    | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>(frequenc\$3 with select\$3 with filter\$3))<br>and (carrier\$1 or (cent\$3 near2<br>frequenc\$3) or sideband\$1 or (side\$1 adj<br>band\$1))                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:33 |
| - | 3523   | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>((frequenc\$3 with select\$3 with filter\$3)<br>or (frequenc\$3 with select\$3))                                                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:33 |
| - | 1659   | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>((frequenc\$3 with select\$3 with filter\$3)<br>or (frequenc\$3 with select\$3))) and<br>(carrier\$1 or (cent\$3 near2 frequenc\$3)<br>or sideband\$1 or (side\$1 adj band\$1))                                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:33 |
| - | 1591   | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>((frequenc\$3 with select\$3 with filter\$3)<br>or (frequenc\$3 with select\$3))) and<br>(carrier\$1 or (cent\$3 near2 frequenc\$3)<br>or sideband\$1 or (side\$1 adj band\$1)))<br>and (optical or photonic)                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>16:34 |
| - | 0      | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>((frequenc\$3 with select\$3 with filter\$3)<br>or (frequenc\$3 with select\$3))) and<br>(carrier\$1 or (cent\$3 near2 frequenc\$3)<br>or sideband\$1 or (side\$1 adj band\$1)))<br>and (optical or photonic)) and<br>@ad<=2010316  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/06<br>09:56 |
| - | 1342   | ((359/\$7.ccls.) or (398/\$7.ccls.)) and<br>((frequenc\$3 with select\$3 with filter\$3)<br>or (frequenc\$3 with select\$3))) and<br>(carrier\$1 or (cent\$3 near2 frequenc\$3)<br>or sideband\$1 or (side\$1 adj band\$1)))<br>and (optical or photonic)) and<br>@ad<=20010316 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:26 |
| - | 4      | ("5315426"   "5432632"   "5596436"  <br>"5710651").PN.                                                                                                                                                                                                                          | USPAT                                                   | 2003/12/05<br>17:00 |
| - | 3      | ("5589969"   "5696614"   "6118563").PN.                                                                                                                                                                                                                                         | USPAT                                                   | 2003/12/05<br>17:10 |
| - | 6      | ("4904038"   "5022732"   "5265112"  <br>"5734493"   "6008931"   "6034760").PN.                                                                                                                                                                                                  | USPAT                                                   | 2003/12/05<br>17:34 |
| - | 9      | ("4701904"   "4722081"   "4726644"  <br>"4893300"   "4941208"   "4953156"  <br>"4989200"   "5016242"   "5020049").PN.                                                                                                                                                           | USPAT                                                   | 2003/12/05<br>17:51 |
| - | 31973  | optical near1 filter\$3                                                                                                                                                                                                                                                         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:26 |
| - | 273    | ((suppress\$3) and (sideband\$1 or (side\$1<br>adj band\$1) or ("sideband"))) and<br>(optical near1 filter\$3)                                                                                                                                                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:26 |
| - | 188    | ((suppress\$3) and (sideband\$1 or (side\$1<br>adj band\$1) or ("sideband"))) and<br>(optical near1 filter\$3)) and<br>@ad<=20010316                                                                                                                                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:27 |

|   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                         |                     |
|---|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| - | 103094 | (optical near1 filter\$3) or (frequenc\$3 near2 select\$3)                                                                                                                                                                                                                                                                                                                                                                                                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:27 |
| - | 103145 | ((optical or photonic) near1 filter\$3) or (frequenc\$3 near2 select\$3)                                                                                                                                                                                                                                                                                                                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:27 |
| - | 1758   | ((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))) and ((optical or photonic) near1 filter\$3) or (frequenc\$3 near2 select\$3)                                                                                                                                                                                                                                                                                                                        | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:27 |
| - | 1527   | ((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))) and ((optical or photonic) near1 filter\$3) or (frequenc\$3 near2 select\$3)) and @ad<=20010316                                                                                                                                                                                                                                                                                                     | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:28 |
| - | 1436   | ((((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))) and ((optical or photonic) near1 filter\$3) or (frequenc\$3 near2 select\$3))) and @ad<=20010316 not (((((359/\$7.ccls.) or (398/\$7.ccls.) and ((frequenc\$3 with select\$3 with filter\$3) or (frequenc\$3 with select\$3))) and (carrier\$1 or (cent\$3 near2 frequenc\$3) or sideband\$1 or (side\$1 adj band\$1))) and (optical or photonic)) and @ad<=20010316)                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/05<br>18:29 |
| - | 371    | (((((suppress\$3) and (sideband\$1 or (side\$1 adj band\$1) or ("sideband"))) and ((optical or photonic) near1 filter\$3) or (frequenc\$3 near2 select\$3))) and @ad<=20010316 not (((((359/\$7.ccls.) or (398/\$7.ccls.) and ((frequenc\$3 with select\$3 with filter\$3) or (frequenc\$3 with select\$3))) and (carrier\$1 or (cent\$3 near2 frequenc\$3) or sideband\$1 or (side\$1 adj band\$1))) and (optical or photonic)) and @ad<=20010316)) and (optical or photonic) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/06<br>09:34 |
| - | 5701   | (carrier\$1 and ((sub\$1 adj carrier\$1) or (subcarrier\$1)))                                                                                                                                                                                                                                                                                                                                                                                                                  | USPAT                                                   | 2003/12/06<br>09:55 |
| - | 225    | ((carrier\$1 and ((sub\$1 adj carrier\$1) or (subcarrier\$1))) and ((optical or photonic) near2 filter\$3)                                                                                                                                                                                                                                                                                                                                                                     | USPAT                                                   | 2003/12/06<br>09:56 |
| - | 210    | ((carrier\$1 and ((sub\$1 adj carrier\$1) or (subcarrier\$1))) and ((optical or photonic) near2 filter\$3)) and @ad<=20010316                                                                                                                                                                                                                                                                                                                                                  | USPAT                                                   | 2003/12/06<br>10:30 |
| - | 480    | ((photonic or optical) near2 filter\$3) same (split\$4 or branch\$3 or ((de\$1 adj multiplex\$3) or (demultiplex\$3))) same (control\$4 or controller\$1)                                                                                                                                                                                                                                                                                                                      | USPAT                                                   | 2003/12/06<br>10:30 |
| - | 428    | ((photonic or optical) near2 filter\$3) same (split\$4 or branch\$3 or ((de\$1 adj multiplex\$3) or (demultiplex\$3))) same (control\$4 or controller\$1)) and @ad<=20010316                                                                                                                                                                                                                                                                                                   | USPAT                                                   | 2003/12/06<br>11:16 |

|   |       |                                                                                                                                                                                                                                                    |                                                         |                     |
|---|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| - | 4     | ((("6049642") or ("6459519")).PN.                                                                                                                                                                                                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>14:42 |
| - | 0     | ((("6049642") or ("6459519")).PN.) and<br>contin\$4                                                                                                                                                                                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>14:47 |
| - | 20803 | (optical or photonic) near2 control\$3<br>with (light\$1 or signal\$1)                                                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>14:48 |
| - | 46    | ((optical or photonic) near2 control\$3<br>with (light\$1 or signal\$1)) same<br>(continuous adj wave)                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:16 |
| - | 8997  | receiver\$1 and (sideband\$1 or (side\$1 adj<br>band\$1) or ("sideband"))                                                                                                                                                                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:17 |
| - | 2063  | (receiver\$1 and (sideband\$1 or (side\$1<br>adj band\$1) or ("sideband"))) and optical                                                                                                                                                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:17 |
| - | 2001  | ((receiver\$1 and (sideband\$1 or (side\$1<br>adj band\$1) or ("sideband"))) and<br>optical) and (wavelength\$1 or frequenc\$3)                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:17 |
| - | 796   | ((((receiver\$1 and (sideband\$1 or (side\$1<br>adj band\$1) or ("sideband"))) and<br>optical) and (wavelength\$1 or<br>frequenc\$3)) and (reconstruct\$3 or<br>restitut\$3 or (re\$1 adj construct\$3)<br>or (re\$1 adj constitut\$3) or recover) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:24 |
| - | 212   | (reconstruct\$3 or restitut\$3 or (re\$1<br>adj construct\$3) or (re\$1 adj<br>constitut\$3) or recover) with (sideband\$1<br>or (side\$1 adj band\$1) or ("sideband"))<br>and receiver\$1                                                         | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:39 |
| - | 8     | (reconstruct\$3 or restitut\$3 or (re\$1<br>adj construct\$3) or (re\$1 adj<br>constitut\$3) or recover) with (sideband\$1<br>or (side\$1 adj band\$1) or ("sideband"))<br>and (optical adj receiver\$1)                                           | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:22 |
| - | 175   | (398/203,204).CCLS.                                                                                                                                                                                                                                | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:39 |
| - | 37    | (398/203).CCLS.                                                                                                                                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:39 |
| - | 153   | (398/204).CCLS.                                                                                                                                                                                                                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>16:39 |

| L Number | Hits | Search Text                                                                                                                                                                                                     | DB                                                      | Time stamp          |
|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| 1        | 2    | ("6088147").PN.                                                                                                                                                                                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>11:50 |
| 2        | 4    | ("5128790"   "5212579"   "5522004"   "5675674").PN.                                                                                                                                                             | USPAT                                                   | 2003/12/09<br>12:51 |
| 3        | 2    | ("5128790").PN.                                                                                                                                                                                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>12:02 |
| 4        | 4    | ("3939341"   "4135202"   "4210803"   "4512025").PN.                                                                                                                                                             | USPAT                                                   | 2003/12/09<br>11:50 |
| 5        | 61   | ((photodiode or photo\$1 adj diode\$1) or (photodetector or (photo\$1 adj detector\$1))) near1 (nonlinear or (non\$1 adj linear))                                                                               | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>12:04 |
| 6        | 2    | ("6459519").PN.                                                                                                                                                                                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>12:58 |
| 7        | 49   | (sideband\$1 or (side\$1 adj band)) near4 (recover\$3 or reconstruct\$3) and optical                                                                                                                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>13:24 |
| 8        | 17   | ("3569715"   "4700150"   "4796264"   "5126876"   "5200964"   "5343324"   "5347392"   "5379309"   "5400417"   "5495359"   "5532857"   "5654818"   "5723856"   "5777778"   "5796510"   "5917179"   "5929430").PN. | USPAT                                                   | 2003/12/09<br>13:01 |
| 9        | 1150 | (nonlinear or (non\$1 adj linear)) and (sideband\$1 or (side\$1 adj band)) and optical                                                                                                                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>13:30 |
| 10       | 605  | (nonlinear or (non\$1 adj linear)) and (sideband\$1 or (side\$1 adj band)) and optical and receiver                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>13:31 |
| 11       | 284  | (nonlinear or (non\$1 adj linear)) and (sideband\$1 or (side\$1 adj band)) and (optical with receiver\$1)                                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>13:31 |
| 12       | 253  | (nonlinear or (non\$1 adj linear)) and (sideband\$1 or (side\$1 adj band)) and (optical with receiver\$1) and electric\$2                                                                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>13:32 |
| -        | 175  | (398/203,204).CCLS.                                                                                                                                                                                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/08<br>17:11 |
| -        | 9    | ((("5099351") or ("5239400") or ("5305134") or ("5140453")).PN.                                                                                                                                                 | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | 2003/12/09<br>10:31 |